

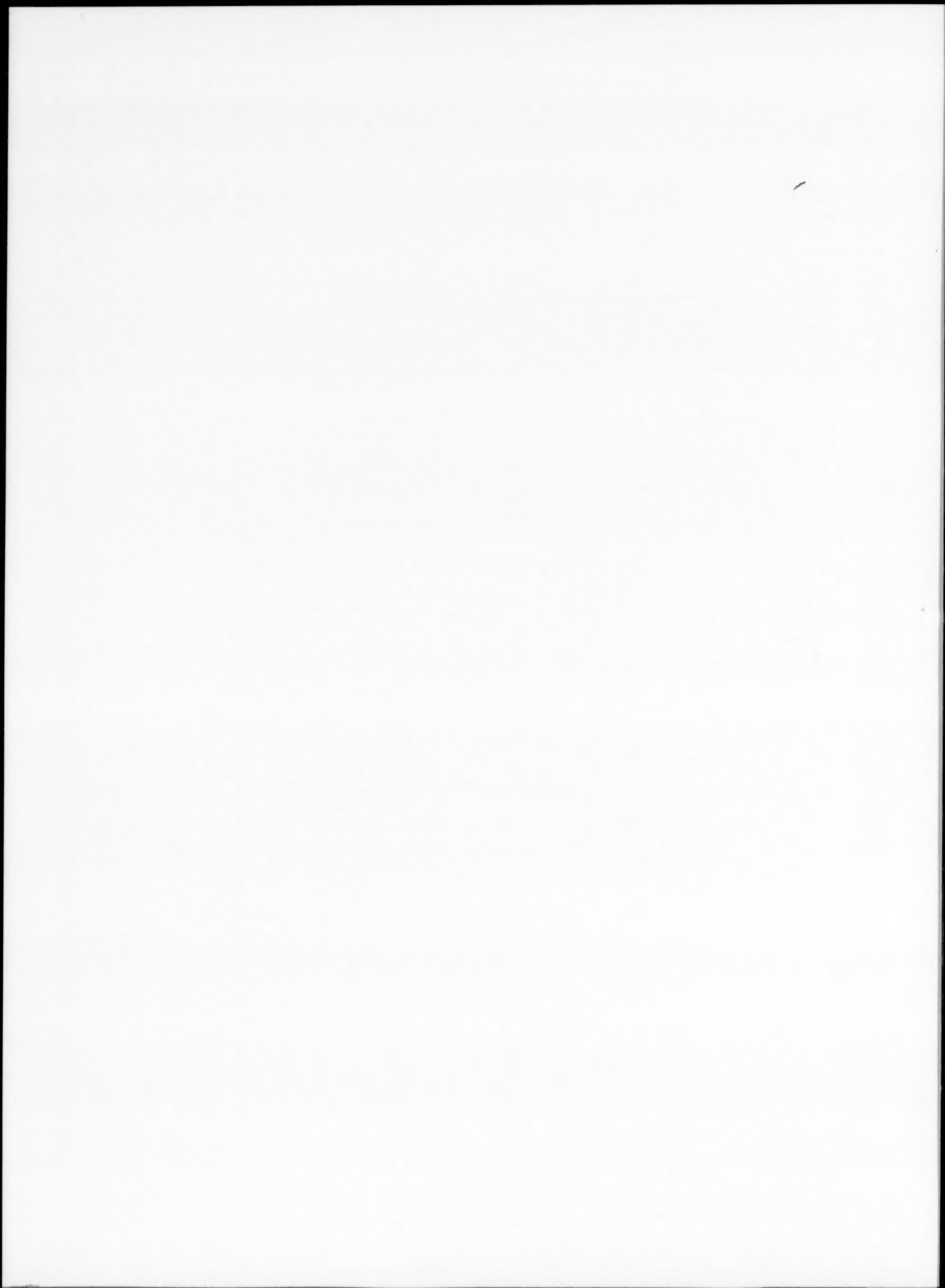
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**Cytokinesis;** *Drosophila*; Embryogenesis; Cell division; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90** 269

**Cytoskeleton;** *Drosophila*; Oogenesis; Germline cells; Follicle formation; *Toucan*; Microtubule **90** 289

**Daughter of Sevenless;** Multisite adaptor protein; PH domain; Receptor tyrosine kinase signaling **90** 205

**Deutocerebrum;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

***Delta*;** Zebrafish; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

***deltaA*;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

***deltaB*;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

***deltaC*;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

***deltaD*;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Development;** *Xenopus laevis*; Localized mRNA; Vegetal cortex; Oocyte polarity; Homeobox; *Otx1* **90** 111

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**Development;** Heart; Mouse; Frizzled; Wnt; FrzA; sFRP-1; mWnt-8 **90** 263

**Development;** Spermatogenesis; Mouse; Testis; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; Meiosis; XY bivalent **90** 95

**Development;** Zebrafish; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Diencephalon;** Branchial arch; Chick; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

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***Dmrt1*;** Sex determination; *DMRT1*; Testis; Human chromosome 9; Sex reversal **90** 323

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**Dorsal root ganglia;** Spock; Testican; Proteoglycan; Mouse; Central nervous system; Peripheral nervous system; Spinal cord; In situ hybridization; Immunohistochemistry; Neuron; Chondroitin; Heparan **90** 317

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***Drosophila swiss-cheese*;** Mouse swiss-cheese; Neuropathy target esterase; Neurodegeneration; Gene expression; Nervous system **90** 279

***Drosophila*;** Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90** 269

***Drosophila*;** Oogenesis; Germline cells; Follicle formation; *Toucan*; Cytoskeleton; Microtubule **90** 289

**Ear;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Early development:** Hyaluronan synthesis; Morphogenesis; Hyaluronan distribution **90 275**

**Ectoderm:** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90 269**

**Ectoderm:** Branchial arch; Chick; Diencephalon; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**Embryo:** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Embryo:** Branchial arch; Chick; Diencephalon; Ectoderm; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**Embryogenesis:** *Drosophila*; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90 269**

**Embryonic stem cells:**  $\beta$ -Galactosidase; CpG islands; H-2K gene expression; Methylation; Transgenic mice **90 29**

**Embryonic stem cells:** Gene trapping; Hematopoiesis; Megakaryocytes; OP9 cells; *Hzf*; *Hhl*; Zinc-finger; Phosphotyrosine binding domain **90 3**

**Emx2:** *ems*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**ems:** *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Endoderm:** DNA injection; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90 65**

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**Endothelium:** Erythroleukaemia; GATA; Haematopoiesis; Transcription factor; Blood; Zebrafish **90 237**

**Endothelium:** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Pronephros; Epidermis **90 119**

**Engrailed2:** Two Pax2/5/8; Mid-hindbrain expression **90 155**

**Enhancer analysis:** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Epidermis:** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros **90 119**

**Epiphysis:** Olfactory bulb; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90 89**

**Erythroleukaemia:** GATA; Haematopoiesis; Transcription factor; Endothelium; Blood; Zebrafish **90 237**

**ES cells:** Glycosylphosphatidylinositol anchor; Mouse embryo **90 133**

**Evolution:** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments **90 143**

**Exchange factor:** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; RhoGEF **90 269**

**Expression pattern:** Chx10; Chx10-1; Homeobox; Eye; Retina; Inner nuclear layer; Bipolar cells; Development; Chick **90 293**

**Extracellular matrix:** Zebrafish; Development; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90 89**

**Eye:** Chx10; Chx10-1; Homeobox; Retina; Inner nuclear layer; Bipolar cells; Expression pattern; Development; Chick **90 293**

**FGF receptor:** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**FGF:** FGF14; Fibroblast growth factor; FGF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Nuclear localization; Alternative splicing; In situ hybridization; Mouse development **90 283**



**Fgf**; Limb development; Recombinant limbs; Hoxa; Bmp; Lmx1; Apical ectodermal ridge; polarizing region; Dorso-ventral pattern **90** 167

**FGF14**; FGF; Fibroblast growth factor; FHF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Nuclear localization; Alternative splicing; In situ hybridization; Mouse development **90** 283

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**Fibroblast growth factor**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Fibroblast growth factor**; FGF; FGF14; FHF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Nuclear localization; Alternative splicing; In situ hybridization; Mouse development **90** 283

**Fin bud**; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Floor plate**; Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

**Fluorescence**; DNA injection; Endoderm; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Follicle formation**; *Drosophila*; Oogenesis; Germline cells; *Toucan*; Cytoskeleton; Microtubule **90** 289

**Frizzled**; Development; Heart; Mouse; Wnt; FrzA; sFRP-1; mWnt-8 **90** 263

**FrzA**; Development; Heart; Mouse; Frizzled; Wnt; sFRP-1; mWnt-8 **90** 263

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**Gap genes**; *ems*; *Emx2*; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

**Gastrulation**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**GATA**; Erythroleukaemia; Haematopoiesis; Transcription factor; Endothelium; Blood; Zebrafish **90** 237

**Gene expression**; *Drosophila swiss-cheese*; Mouse swiss-cheese; Neuroathy target esterase; Neurodegeneration; Nervous system **90** 279

**Gene mapping**; Zebrafish; Development; Extracellular matrix; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Gene trapping**; Embryonic stem cells; Hematopoiesis; Megakaryocytes; OP9 cells; *Hzf*; *Hhl*; Zinc-finger; Phosphotyrosine binding domain **90** 3

**Genetics**; *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

**Germ cells**; Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Pachytene; Oocytes; Meiosis; XY bivalent **90** 95

**Germ layer specific expression**; DNA injection; Endoderm; Fluorescence; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Germ ring**; Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Germline cells**; *Drosophila*; Oogenesis; Follicle formation; *Toucan*; Cytoskeleton; Microtubule **90** 289

**GFP**; DNA injection; Endoderm; Fluorescence; Germ layer specific expression; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Glycosylphosphatidylinositol anchor**; ES cells; Mouse embryo **90** 133

**Gonads**; *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90** 269

**gsc**; Spemann's organizer; *Xvex-1*; *BMP-4*; *Xvent*; *siamois*; Competence; Target genes; *Xenopus* **90** 77

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**Gut**; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum;

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- H19**; Imprinting; Sperm; Mouse embryo; Heterochromatin; Methylation; Satellite **90** 217
- H-2K gene expression**;  $\beta$ -Galactosidase; CpG islands; Embryonic stem cells; Methylation; Transgenic mice **90** 29
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- Heart**; T-box; *Tbx5*; Holt–Oram syndrome; Lateral plate mesoderm; Pectoral fin; Apical fold; Limb development; Retina; Zebrafish **90** 299
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- Hematopoiesis**; Embryonic stem cells; Gene trapping; Megakaryocytes; OP9 cells; *Hzf*; *Hhl*; Zinc-finger; Phosphotyrosine binding domain **90** 3
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- Hindbrain**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103
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- HNF1 $\alpha$** ; DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65
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- Immunohistochemistry**; Spock; Testican; Proteoglycan; Mouse; Central



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**In situ hybridization;** Congenital heart disease; Down syndrome; Chromosome 21; SH3BGR gene; Mouse embryogenesis; Heart; Skeletal muscle; Smooth muscle; Northern blot **90** 313

**In situ hybridization;** FGF; FGF14; Fibroblast growth factor; FGF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Nuclear localization; Alternative splicing; Mouse development **90** 283

**In situ hybridization;** Spock; Testican; Proteoglycan; Mouse; Central nervous system; Peripheral nervous system; Spinal cord; Dorsal root ganglia; Immunohistochemistry; Neuron; Chondroitin; Heparan **90** 317

**Inner ear;** Lateral line primordium; Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Inner nuclear layer;** Chx10; Chx10-1; Homeobox; Eye; Retina; Bipolar cells; Expression pattern; Development; Chick **90** 293

**Insect proteins;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Brain development; Ventral nerve cord; Drosophila; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

**Insulin-like growth factor binding protein;** Cysteine-rich repeat; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

**Invertebrates;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; Drosophila; Animal; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

***KAL-1*;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Kallmann syndrome;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Kidney;** DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Lateral line primordium;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

**Lateral line;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Lateral plate mesoderm;** Chick embryo; TGF $\beta$ ; *lefty1*; *antivin*; Left-right asymmetry; Notochord; Prospective floorplate **90** 115

**Lateral plate mesoderm;** T-box; *Tbx5*; Holt-Oram syndrome; Heart; Pectoral fin; Apical fold; Limb development; Retina; Zebrafish **90** 299

**Left-right asymmetry;** Homeobox gene; Mouse; *Pitx2* isoforms; *Xenopus* **90** 41

**Left-right asymmetry;** Chick embryo; TGF $\beta$ ; *lefty1*; *antivin*; Notochord; Prospective floorplate; Lateral plate mesoderm **90** 115

***lefty1*;** Chick embryo; TGF $\beta$ ; *antivin*; Left-right asymmetry; Notochord; Prospective floorplate; Lateral plate mesoderm **90** 115

**Limb bud;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Limb development;** Recombinant limbs; Hoxa; Fgf; Bmp; Lmx1; Apical ectodermal ridge; polarizing region; Dorso-ventral pattern **90** 167

**Limb development;** T-box; *Tbx5*; Holt-Oram syndrome; Lateral plate mesoderm; Heart; Pectoral fin; Apical fold; Retina; Zebrafish **90** 299

**Liver;** DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Lmx1;** Limb development; Recombinant limbs; Hoxa; Fgf; Bmp; Apical ectodermal ridge; polarizing region; Dorso-ventral pattern **90** 167

**Localized mRNA;** *Xenopus laevis*; Vegetal cortex; Oocyte polarity; Homeobox; Development; *Otx1* **90** 111

**Megakaryocytes;** Embryonic stem cells; Gene trapping; Hematopoiesis; OP9 cells; *Hzf*; *Hhl*; Zinc-finger; Phosphotyrosine binding domain **90** 3

**Meiosis;** Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; XY bivalent **90** 95

**Mesenchyme;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Mesoderm;** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells;



Gonads; Ectoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90** 269

**Mesoderm**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Mesoderm**; DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Mesoderm**; rRNA processing; Muscle; Nop; Sik; Nucleolus; Midgut **90** 305

**Methylation**;  $\beta$ -Galactosidase; CpG islands; Embryonic stem cells; H-2K gene expression; Transgenic mice **90** 29

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**Microtubule**; *Drosophila*; Oogenesis; Germline cells; Follicle formation; *Toucan*; Cytoskeleton **90** 289

**Mid-blastula transition**; Endodermal specification; TGF $\beta$  signalling **90** 227

**Midbrain**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Midgut**; rRNA processing; Muscle; Mesoderm; Nop; Sik; Nucleolus **90** 305

**Mid-hindbrain expression**; Two Pax2/5/8; *Engrailed2* **90** 155

**Morphogenesis**; Hyaluronan synthesis; Early development; Hyaluronan distribution **90** 275

**Motor neuron**; Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

**Mouse development**; FGF; FGF14; Fibroblast growth factor; FGF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Nuclear localization; Alternative splicing; In situ hybridization **90** 283

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**Mouse embryo**; Imprinting; H19; Sperm; Heterochromatin; Methylation; Satellite **90** 217

**Mouse embryogenesis**; Congenital heart disease; Down syndrome; Chromosome 21; SH3BGR gene; Heart; Skeletal muscle; Smooth muscle; Northern blot; In situ hybridization **90** 313

**Mouse swiss-cheese**; *Drosophila swiss-cheese*; Neuropathy target esterase; Neurodegeneration; Gene expression; Nervous system **90** 279

**Mouse**; *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Rescue experiments; Evolution **90** 143

**Mouse**; Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; *C. elegans* **90** 181

**Mouse**; Development; Heart; Frizzled; Wnt; FrzA; sFRP-1; mWnt-8 **90** 263

**Mouse**; Homeobox gene; Left-right asymmetry; *Pitx2* isoforms; *Xenopus* **90** 41

**Mouse**; Spermatogenesis; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; Meiosis; XY bivalent **90** 95

**Mouse**; Spock; Testican; Proteoglycan; Central nervous system; Peripheral nervous system; Spinal cord; Dorsal root ganglia; In situ hybridization; Immunohistochemistry; Neuron; Chondroitin; Heparan **90** 317

**Multisite adaptor protein**; Daughter of Sevenless; PH domain; Receptor tyrosine kinase signaling **90** 205

**Muscle actin promoter**; DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Neural  $\beta$ -tubulin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Muscle**; rRNA processing; Mesoderm; Nop; Sik; Nucleolus; Midgut **90** 305

**Mutants**; *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

**mWnt-8**; Development; Heart; Mouse; Frizzled; Wnt; FrzA; sFRP-1 **90** 263

**Nephric duct**; Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90** 103

**Nervous system**; *Drosophila swiss-cheese*; Mouse swiss-cheese; Neuropathy target esterase; Neurodegeneration; Gene expression **90** 279

**Neural  $\beta$ -tubulin promoter**; DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90** 65

**Neural fold;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**Neural tube;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90 119**

**Neuroblasts;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Neurodegeneration;** *Drosophila swiss-cheese*; Mouse swiss-cheese; Neuropathy target esterase; Gene expression; Nervous system **90 279**

**Neuroectoderm expression;** Splicing; Serine/arginine rich; SR factor; Central nervous system **90 309**

**Neuroectoderm;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Neurogenesis;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**

**Neurogenesis;** Asymmetric cell divisions; Cell proliferation; Rat cortical precursors; Retroviral vectors; BrdU labelling **90 17**

**Neurogenesis;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neuromere; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**Neuromere;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Pharynx; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**

**Neuron;** Spock; Testican; Proteoglycan; Mouse; Central nervous system; Peripheral nervous system; Spinal cord; Dorsal root ganglia; In situ hybridization; Immunohistochemistry; Chondroitin; Heparan **90 317**

**Neuropathy target esterase;** *Drosophila swiss-cheese*; Mouse swiss-cheese; Neurodegeneration; Gene expression; Nervous system **90 279**

**Nop;** rRNA processing; Muscle; Mesoderm; Sik; Nucleolus; Midgut **90 305**

**Northern blot;** Congenital heart disease; Down syndrome; Chromosome 21; SH3BGR gene; Mouse embryogenesis; Heart; Skeletal muscle; Smooth muscle; In situ hybridization **90 313**

**Notch;** Zebrafish; *Delta*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90 119**

**notch1a;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90 119**

**Notochord;** Chick embryo; TGF $\beta$ ; *lefty1*; *antivin*; Left-right asymmetry; Prospective floorplate; Lateral plate mesoderm **90 115**

**Notochord;** Cysteine-rich repeat; Insulin-like growth factor binding protein; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90 181**

**Notochord;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Aorta; Endothelium; Pronephros; Epidermis **90 119**

**Nuclear growth factor;** FGF; FGF14; Fibroblast growth factor; FHF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear localization; Alternative splicing; In situ hybridization; Mouse development **90 283**

**Nuclear localisation signals;** Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Germ cells; Pachytene; Oocytes; Meiosis; XY bivalent **90 95**

**Nuclear localization;** FGF; FGF14; Fibroblast growth factor; FHF4; Central nervous system; Cerebellum; Spinal cord; Aorta; Thymus; Nuclear growth factor; Alternative splicing; In situ hybridization; Mouse development **90 283**

**Nucleolus;** rRNA processing; Muscle; Mesoderm; Nop; Sik; Midgut **90 305**

**Olfactory bulb;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90 89**

**Olfactory system;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90 89**

**Oocyte polarity;** *Xenopus laevis*; Localized mRNA; Vegetal cortex; Homeobox; Development; *Otx1* **90 111**

**Oocytes;** Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Meiosis; XY bivalent **90 95**

**Oogenesis;** *Drosophila*; Germline cells; Follicle formation; *Toucan*; Cytoskeleton; Microtubule **90 289**

**OP9 cells;** Embryonic stem cells; Gene trapping; Hematopoiesis; Megakaryocytes; *Hzf*; *Hhl*; Zinc-finger; Phosphotyrosine binding domain **90 3**



- Optic tectum;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90 89**
- Organizer;** Anti-dorsalizing morphogenetic protein; Head formation; BMP, Follistatin; *Xenopus*; Wnt inhibitors **90 195**
- Organogenesis;** Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Spastic Paraplegia Type 4; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90 181**
- Otx1;** *Xenopus laevis*; Localized mRNA; Vegetal cortex; Oocyte polarity; Homeobox; Development **90 111**
- Overexpression;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Mouse; Rescue experiments; Evolution **90 143**
- Pachytene;** Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Oocytes; Meiosis; XY bivalent **90 95**
- Paraventricular nucleus;** *Sim1*; *Arnt2*; Hypothalamus; Supraoptic nucleus **90 253**
- Patterning genes;** *ems*; *Emx2*; Gap genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90 143**
- pax2.1;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90 119**
- pebble;** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; Exchange factor; RhoGEF **90 269**
- Pectoral fin;** T-box; *Tbx5*; Holt–Oram syndrome; Lateral plate mesoderm; Heart; Apical fold; Limb development; Retina; Zebrafish **90 299**
- Peripheral nervous system;** Spock; Testican; Proteoglycan; Mouse; Central nervous system; Spinal cord; Dorsal root ganglia; In situ hybridization; Immunohistochemistry; Neuron; Chondroitin; Heparan **90 317**
- PH domain;** Daughter of Sevenless; Multisite adaptor protein; Receptor tyrosine kinase signaling **90 205**
- Pharynx;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Rhombomere; Spinal cord; Somite; Telencephalon **90 103**
- Phosphotyrosine binding domain;** Embryonic stem cells; Gene trapping; Hematopoiesis; Megakaryocytes; OP9 cells; *Hzf*; *Hhl*; Zinc-finger **90 3**
- Pitx2 isoforms;** Homeobox gene; Left–right asymmetry; Mouse; *Xenopus* **90 41**
- Planar signalling;** Vertical signalling; Pseudoexogastrulae; *Xenopus laevis*; *Triturus alpestris*; Urodela; Anura **90 53**
- polarizing region;** Limb development; Recombinant limbs; Hoxa; Fgf; Bmp; Lmx1; Apical ectodermal ridge; Dorso-ventral pattern **90 167**
- Pole cells;** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Posterior pole; Cellularization; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90 269**
- Posterior pole;** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Postmitotic nuclei; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90 269**
- Postmitotic nuclei;** *Drosophila*; Embryogenesis; Cell division; Cytokinesis; Cleavage furrow; Posterior pole; Cellularization; Pole cells; Gonads; Ectoderm; Mesoderm; Central nervous system; Ventral nerve cord; *pebble*; Exchange factor; RhoGEF **90 269**
- Promoter;** DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Pronephros; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90 65**
- Pronephric duct;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Retina; Lateral line primordium; Inner ear; Tail bud; Fin bud; Branchial arches; Swim bladder; Gut **90 89**
- Pronephros;** DNA injection; Endoderm; Fluorescence; Germ layer specific expression; GFP; Gut; HNF1 $\alpha$ ; HNF1 $\alpha$  promoter; HNF4; Kidney; Liver; Mesoderm; Muscle actin promoter; Neural  $\beta$ -tubulin promoter; Promoter; Sperm nuclei; Tissue restricted expression; Transgenic *Xenopus*; *Xenopus laevis* **90 65**
- Pronephros;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Epidermis **90 119**
- Prospective floorplate;** Chick embryo; TGF $\beta$ ; *lefty1*; *antivin*; Left-right asymmetry; Notochord; Lateral plate mesoderm **90 115**
- Proteoglycan;** Spock; Testican; Mouse; Central nervous system; Peripheral nervous system; Spinal cord; Dorsal root ganglia; In situ hybridization; Immunohistochemistry; Neuron; Chondroitin; Heparan **90 317**
- Pseudoexogastrulae;** Planar signalling; Vertical signalling; *Xenopus laevis*; *Triturus alpestris*; Urodela; Anura **90 53**
- Rat cortical precursors;** Neurogenesis; Asymmetric cell divisions; Cell proliferation; Retroviral vectors; BrdU labelling **90 17**
- Receptor tyrosine kinase signaling;** Daughter of Sevenless; Multisite adaptor protein; PH domain **90 205**
- Recombinant limbs;** Limb development; Hoxa; Fgf; Bmp; Lmx1; Apical ectodermal ridge; polarizing region; Dorso-ventral pattern **90 167**



**Rescue experiments;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Transgenic animals; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Evolution **90** 143

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**Retina;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Retina;** Zebrafish; Development; Extracellular matrix; Gene mapping; Whole-mount in situ hybridization; Kallmann syndrome; *KAL-1*; Olfactory system; Central nervous system; Olfactory bulb; Epiphysis; Optic tectum; Cerebellum; Lateral line primordium; Inner ear; Tail bud; Fin bud; Pronephric duct; Branchial arches; Swim bladder; Gut **90** 89

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**Sex reversal;** Sex determination; *DMRT1*; *Dmrt1*; Testis; Human chromosome 9 **90** 323

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**Somite;** Branchial arch; Chick; Diencephalon; Ectoderm; Embryo; Fibroblast growth factor; FGF receptor; Gastrulation; Hindbrain; Limb bud; Mesenchyme; Mesoderm; Midbrain; Nephric duct; Neural fold; Neurogenesis; Neuromere; Pharynx; Rhombomere; Spinal cord; Telencephalon **90** 103

**Somites;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

**Spastic Paraplegia Type 4;** Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

**Spastic Paraplegia Type 4;** Cysteine-rich repeat; Insulin-like growth factor binding protein; Notochord; Floor plate; Motor neuron; Spinal cord; Brain; CNS development; Organogenesis; Chordin; Short gastrulation; Bone morphogenic protein; Transforming growth factor- $\beta$ ; Holoprosencephaly 2; Hereditary essential tremor 2, Human; Mouse; *C. elegans* **90** 181

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**Spermatogenesis;** Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; Meiosis; XY bivalent **90** 95

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**Tailbud;** Zebrafish; *Delta*; *Notch*; *X-Delta-2*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90** 119

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**Transgenic animals;** *ems*; *Emx2*; Gap genes; Patterning genes; Homeodomain proteins; Insect proteins; Brain development; Ventral nerve cord; *Drosophila*; Animal; Invertebrates; Embryo; Neurogenesis; Neuroectoderm; Deutocerebrum; Tritocerebrum; Neuroblasts; Axogenesis; Genetics; Immunocytochemistry; Enhancer analysis; Mutants; Apoptosis; Confocal microscopy; Heat shock experiments; Overexpression; Mouse; Rescue experiments; Evolution **90** 143

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**Urodela**; Planar signalling; Vertical signalling; Pseudoexogastrulae; *Xenopus laevis*; *Triturus alpestris*; Anura **90 53**

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**X-Delta-2**; Zebrafish; *Delta*; *Notch*; *deltaA*; *deltaB*; *deltaC*; *deltaD*; *notch1a*; *pax2.1*; *vegr-2*; Germ ring; Tailbud; Somites; Neural tube; Ear; Lateral line; Cranial ganglia; Retina; Notochord; Aorta; Endothelium; Pronephros; Epidermis **90 119**

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**Xenopus**; Homeobox gene; Left-right asymmetry; Mouse; *Pitx2* isoforms **90 41**

**Xenopus**; Spemann's organizer; *Xvex-1*; *BMP-4*; *Xvent*; *gsc*; *siamois*; Competence; Target genes **90 77**

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**Xenopus laevis**; Localized mRNA; Vegetal cortex; Oocyte polarity; Homeobox; Development; *Otx1* **90 111**

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**Xvex-1**; Spemann's organizer; *BMP-4*; *Xvent*; *gsc*; *siamois*; Competence; Target genes; *Xenopus* **90 77**

**XY bivalent**; Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; XY body; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; Meiosis **90 95**

**XY body**; Spermatogenesis; Mouse; Testis; Development; *XYbp*; Spermatocyte differentiation; Centrosome; RING-finger; Cell cycle; Alternative polyadenylation; Nuclear localisation signals; Germ cells; Pachytene; Oocytes; Meiosis; XY bivalent **90 95**

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